

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: STP-1375(5) Cherokee
P. I. No.: 630977
Bells Ferry Road/CR 70 widening and reconstruction

OFFICE: Engineering Services

DATE: January 23, 2008

FROM: Brian Summers, P.E., Project Review Engineer *BSW*

TO: Babs Abubakari, PE, State Program Delivery and Consultant Design Engineer

SUBJECT: IMPLEMENTATION OF VALUE ENGINEERING STUDY ALTERNATIVES

Recommendations for implementation of Value Engineering Study Alternatives are indicated in the table below. Incorporate alternatives recommended for implementation to the extent reasonable in the design of the project.

ALT No.	Description	Savings PW & LCC	Implement	Comments
ROADWAY (RD)				
RD-2	Use 11' travel lanes	\$3,142,696	Yes	This should be done.
RD-3	Use fuller slopes to minimize waste	Design Suggestion	Yes	This should be done.
RD-6	Reduce Side Road Right of Way taking and minimize Side Road construction	\$34,456	Yes	This should be done.
RD-7	Provide one additional signal at North Victoria and delete all other non-signalized U-turn intersections	Design Suggestion	No	The need will be determined through normal Traffic Signal Warrant Guidelines.
RD-9	Utilize the existing mainline alignment and do not re-align North Victoria Road	\$595,485	No	The alignment was set to match the alignment of the adjacent Bridge Replacement Project and to minimize impacts to a Corp of Engineers parcel adjacent to the roadway.

ALT No.	Description	Savings PW & LCC	Implement	Comments
ROADWAY (RD) - continued				
RD-11	Rotate the alignment from Sta. 140+00 to Sta. 147+00 to reduce traffic conflicts during construction	Design Suggestion	Yes	This should be done.
RD-13	Construct a Right Turn Lane from Othello Road onto Bells Ferry Road	Design Suggestion	Yes	This should be done.
RD-14	Delete Left Turn Bays at the Fire Station Drive	\$46,224	Yes	This should be done.
RD-15	Delete the NB Right Turn Lane at the Fire Station Drive	\$252,019	Yes	This should be done.
RD-16	Delete Left Turn Lanes to Side Streets and provide mid-block U-Turns	Design Suggestion	Yes	Will be done, where possible.
DRAINAGE (DR)				
DR-1	Modify structures at intermittent Streams (Sta. 223+00 and Sta. 225+75)	\$2,865	No	Does not match the existing drainage patterns.
DR-2	Modify structure at Sta. 149+90 by moving the inlets, rerouting the pipe and cutting a special ditch	\$10,150	Yes	This should be done.
DR-3	Delete Curb and Gutter from the Side Streets	\$174,768	Yes	This should be done. Curb and Gutter would stop at the radius returns.
DR-4	Eliminate existing structure at Sta. 219+29	\$4,677	Yes	This should be done.
EARTHWORK (EW)				
EW-1	Consider raising the grade from Sta. 200+00 to Sta. 206+00 to reduce the Unclassified Excavation	\$146,663	Yes	This should be done.

ALT No.	Description	Savings PW & LCC	Implement	Comments
EARTHWORK (EW) - continued				
EW-2	Adjust profile to reduce earthwork and Right of Way	\$298,276	Yes	This should be done.

A meeting was held on January 16, 2008 to discuss the above recommendations. Harley Griffin and Vinique Word with Delon Hampton, Mike Haithcock, and Nicoe Alexander with Consultant Design, and Brian Summers, Ron Wishon and Lisa Myers with Engineering Services were in attendance.

The results above reflect the consensus of those in attendance and those who provided input.

Approved:  Date: 1/29/08
Gerald M. Ross, P. E., Chief Engineer


BKS/REW

Attachments

c: Gus Shanine
Todd Long
Paul Liles
James Magnus
Kenny Beckworth
Mike Haithcock
Nicoe Alexander
Amber Perkins
Ken Werho
Nabil M. Raad
Lisa Myers

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: STP-1375(5), Cherokee County
Widening & Relocation of CR 770/Bells Ferry Road
from Southfork Way to North Victoria Road
P.I. 630977

FROM: Mohammed A. (Babs) Abubakari, P.E., State Consultant Design Engineer
TO: Brian Summers, P.E., Project Review Engineer
OFFICE: Consultant Design
DATE: December 27, 2007
SUBJECT: Responses to Value Engineering Study

The VE team's recommendations are noted below in italics and Consultant Design's responses follow:

RD-2 *Use 11-Ft. Travel lanes.* This change is achievable for the design of this project. However, consideration should be give to the current and projected traffic volumes that includes heavy trucks which may threaten overall functional safety. The use of 11-ft. lanes will reduce costs for construction and right-of-way which is being purchased by Cherokee County. Bells Ferry Road is a County Road. For these reasons, Consultant Design does recommend implementing this alternative.

RD-3 *Use Fuller Slopes to minimize waste.* This Design Suggestion will be implemented throughout design where applicable which may help to lessen the right-of-way impacts.

RD-6 *Reduce side road ROW taking and minimize side road work at ML ROW tie.* This alternative will be revisited at each side road. For this reason, Consultant Design does recommend implementing this alternative where practical.

RD-7 *Provide one additional signal at North Victoria Road, delete all other non-signal intersection 'U' turns.* This design suggestion will be looked at for possible implementation.

RD-9 *N. Victoria Road Realign with existing main line alignment.* The profile was set to align with the adjacent bridge replacement project. This alternative will be revisited. For this reason, Consultant Design does recommend implementing this alternative if practical.

RD-11 *Rotate shift alignment between Sta. 140+00 to Sta. 147+00 to reduce conflicts during construction.* This design suggestion will be reviewed for possible consideration.

RD-13 *Provide right turn lane on Othello Drive.* This suggestion will be reviewed for possible right-of-way impacts.

RD-14 *Delete left turn bays at Fire Station Drive.* Cherokee County requests that the median break remain at this location. The median break will remain for emergency vehicles leaving the fire station travelling southbound. For these reasons, Consultant Design does recommend implementing this alternative.

RD-15 *Delete right turn northbound into Fire Station Drive.* Since this reduce right of way costs, Consultant Design does recommend implementing this alternative.

RD-16 *Delete left turns to side streets, provide mid block 'U' turns.* This design suggestion will be looked at for possible implementation.

DR-1 *Modify cross drains @ intermittent streams at Sta. 223+00 and Sta. 225+70.* Consultant design does recommend implementing this alternative.

DR-2 *At Sta. 149+90, move drop inlet on west side and re-route pipe.* Consultant design does recommend implementing this alternative.

DR-3 *Delete curb and gutter from side roads.* This alternative will be examined at each side road. For this reason, Consultant Design does recommend implementing this alternative where practical.

DR-4 *Eliminate existing structure at Sta. 219+29.* Consultant design does recommend implementing this alternative.

EW-1 *From Sta. 200+00 to Sta. 206+00 raise grade to reduce earthwork.* Consultant design does recommend implementing this alternative.

EW-2 *Adjust profile to reduce earthwork and ROW.* Consultant design does recommend implementing this alternative.

If you have any questions, please call Nicoe Alexander at (404) 463-6135.

MBA:MAH:JNA

cc: Lisa Myers